



High Accuracy/Volume Manufacturing



Productivity Inc[®]



Challenge:

A hydraulic component manufacturer needed a production machine to process an extremely tight tolerance pump body in high volumes.

The custom machine that was in production had a high maintenance requirement and was down a lot of the time.

Product(s) Used:

- RoboFlex[®] I with LR Mate 200iB robot
- Lanco Pallet Transfer Equipment
- Matsuura LX-0 linear motor, high precision VMC & custom workholding.
- Custom pallets to hold several different styles of parts.

Solution:

The system that we provided to this manufacturer allows complete machining of this part with no machine operator present. The system when fully loaded will run for 4-5 hours. It takes about an hour to unload, replenish, and service the machine. This can mostly be done while the equipment is in operation. The simple single nest fixture has replaceable nests for quick and easy part changeover. Standard machine and fewer mechanical components allow high machine uptime, and better part quality.